## **Abstract**

A hydrophilization agent free of chromium can impart to a heat exchanger made of aluminum, improved corrosion resistance and hydrophilic property lasting for long period of time. The hydrophilization agent contains:

- (A) a hydrophilic polymer having at least one non-ionic functional group selected from the group consisting of a primary amide group, a secondary amide group, a tertiary amide group, a hydroxyl group and a polyoxyalkylene group;
- (B) a hydrophilic polymer having at least one ionic functional group selected from the group consisting of a sulfonic acid group, a phosphonic acid group, a carboxyl group, a primary amino group, a secondary amino group, a tertiary amino group and a quaternary ammonium group;
- (C) a vanadium compound; and,

10

15 (D) a compound having at least one element selected from the group consisting of Zr, Ti, Si.